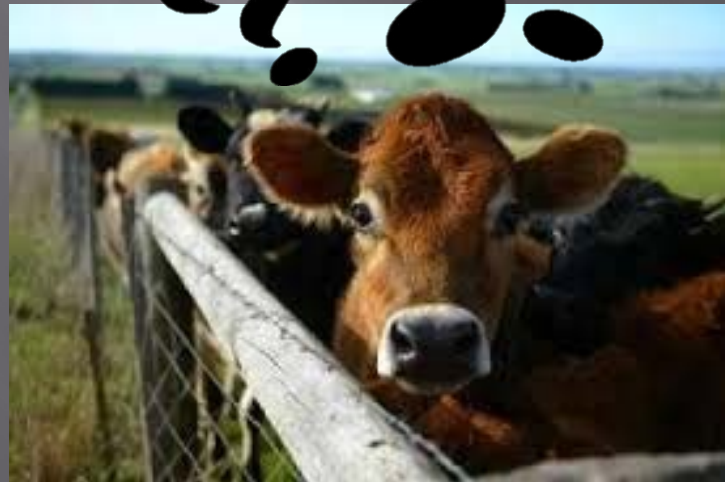


2013 San Joaquin River Watershed Sanitary Survey



Background

- ▣ Previous Sanitary Surveys
- ▣ New Format
- ▣ What's Next



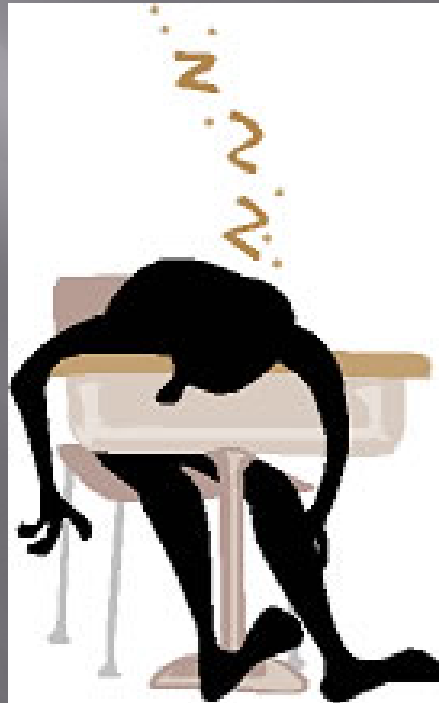
Sections Covered

- ▣ Regulations
- ▣ Potential Contaminant Sources
 - Wastewater Treatment Plants
 - Urban Runoff
 - Agricultural Discharges
 - Confined Animal Facilities (CAFs)
- ▣ Water Quality

Findings



Regulations:



Wastewater Treatment Plants:



Wastewater Treatment Plants:

- ▣ 6 WWTPs discharging in SJR watershed
 - Locations and Discharge Points
- ▣ Coliform levels generally low
- ▣ Nutrients generally low
- ▣ TOC-only measured at Modesto
- ▣ Salinity levels were high at several WWTPs
- ▣ 40 total SSOs totaling 120,833 gallons

Urban Water Runoff:

What Doesn't Belong???



Urban Water Runoff:

- ▣ Fresno and Modesto: Phase I permit holders
- ▣ Fresno – stormwater discharged to SJR
 - No trends across sampling sites, but seasonally
- ▣ Modesto – stormwater discharged to Tuolumne River
 - Trends both across sampling sites and seasonally
- ▣ Low Impact Development (LID) – expanded to Phase II
- ▣ Hydromodification

Ag Discharges:

▣ Nutrients

- 6,238 S
- 80 MCL

etects

▣ Pesticides

- 46,631 S
- MCL v

etects

only violation



CAFs:

- ▣ Fewer dairies, but more cows per dairy
- ▣ Regulations are working
- ▣ Only 6 Class I violations



Water Quality:

- ▣ Stations chosen between Vernalis and Mendota Pool

- ▣ WQ increases downstream

- ▣ Take Home: water quality is very good!



THANK YOU!

Elaine Archibald

Cindy Garcia

Sonia Mille

Otome Lindsey

Rachel Pisor

Marcia Scavone-Tansey

And anyone else who I bothered while searching
for answers during this project!

QUESTIONS???

No?

GOOD!

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